

Notice No.6

Rules and Regulations for the Classification of Special Service Craft, July 2021

The status of this Rule set is amended as shown and is now to be read in conjunction with this and prior Notices. Any corrigenda included in the Notice are effective immediately.

Please note that corrigenda amends to paragraphs, Tables and Figures are not shown in their entirety.

Issue date: June 2022

Amendments to	Effective date	IACS/IMO implementation (if applicable)
Part 8, Chapter 2, Section 2	1 July 2022	N/A
Part 8, Chapter 7, Section 3	1 July 2022	N/A
Part 15, Chapter 1, Section 5	1 July 2022	1 July 2022

Part 8, Chapter 2 Construction Procedures

■ Section 2 Materials

2.13 Core materials

2.13.3 Rigid expanded foam plastics are to:

- (a) be of closed-cell types and impervious to water, fuel and oils;
- (b) have good ageing stability;
- (c) be compatible with the resin system;
- (d) have good strength retention at 60°C;
- (e) have characteristics and mechanical properties of not less than those indicated in [Table 2.2.1 Minimum characteristics and mechanical properties of rigid expanded foams at 20°C](#) Ch 14, 5.12 Closed cell foams for core construction based on PVC or polyurethane 5.12.1 of the [Rules for the Manufacture, Testing and Certification of Materials](#); and
- (f) if manufactured into formable sheets of small blocks, the open weave backing material and adhesive are to be compatible and soluble, respectively, with the laminating resin.

Table 2.2.1 Minimum characteristics and mechanical properties of rigid expanded foams at 20°C

Material	Apparent density (kg/m ³)	Strength			Moduli of elasticity	
		(N/mm ²)			(N/mm ²)	
		Tensile	Compressive	Shear	Compressive	Shear
Polyurethane	96	0,85	0,60	0,50	17,20	8,50
Polyvinylchloride	60					

Existing Tables 2.2.2, 2.2.3 and 2.2.4 have been renumbered 2.2.1, 2.2.2 and 2.2.3.

Part 8, Chapter 7 Failure Modes Control

■ Section 3 Stress control

3.5 Core shear stress

Table 7.3.3 Limiting core shear stress criteria

Core Material-material	Limiting shear stress fraction (see Note)
SAN cores	0,60
PVC and metal/composite honeycombs	0,45
All other cores	0,35
Note For long-term static loads, the limiting shear stress fraction is to be taken as 0,20.	

Part 15, Chapter 1

Piping Design Requirements

Section 5

Carbon and low alloy steels

5.8 Other mechanical couplings

Existing Table 1.5.6 has been deleted and replaced with the below:

Table 1.5.6 Application of mechanical joints

Systems	Kind of connections			Classification of pipe system	Fire endurance test condition see Note 7
	Pipe unions	Compression couplings	Slip-on joints		
Flammable fluids (flash point > 60°C)					
Fuel oil lines, see Notes 2 & 3	+	+	+	wet	30 min wet (*)
Lubricating oil lines, see Notes 2 & 3	+	+	+	wet	
Hydraulic oil, see Notes 2 & 3	+	+	+	wet	
Thermal oil, see Notes 2 & 3	+	+	+	wet	
Sea water					
Bilge lines, see Note 4	+	+	+	dry/wet	8 min dry + 22 min wet (*)
Permanent water filled fire-extinguishing systems, e.g. fire main, sprinkler systems, see Note 3	+	+	+	wet	30 min wet (*)
Non-permanent water filled fire-extinguishing systems, e.g. foam, drencher systems and fire main, see Note 3	+	+	+	dry/wet	8 min dry + 22 min wet (*) For foam systems FSS Code to be observed
Ballast system, see Note 4	+	+	+	wet	30 min wet (*)
Cooling water system, see Note 4	+	+	+	wet	30 min wet (*)
Tank cleaning services	+	+	+	dry	Fire endurance test not required
Non-essential systems	+	+	+	dry, dry/wet, wet	Fire endurance test not required
Fresh water					
Cooling water system, see Note 4	+	+	+	dry	Fire endurance test not required
Condensate return, see Note 4	+	+	+	dry	
Non-essential system	+	+	+	dry	
Sanitary/drains/scuppers					
Deck drains (internal), see Note 5	+	+	+	dry	Fire endurance test not required
Sanitary drains	+	+	+	dry	
Scuppers and discharge (overboard)	+	+	+	dry	
Sounding/vent					
Water tanks/dry spaces	+	+	+	dry, wet	Fire endurance test not required
Oil tanks (f.p. > 60°C), see Notes 2 & 3	+	+	+	dry	
Miscellaneous					
Starting/control air, see Note 4	+	+	+	dry	30 min dry (*)
Service air (non-essential)	+	+	+	dry	Fire endurance test not required
Brine	+	+	+	wet	
CO ₂ system (outside protected space)	+	+	+	dry	30 min dry (*)
CO ₂ system (inside protected space)	+	+	+	dry	Mechanical joints shall be constructed of materials with a melting point above 925°C. Ref. to FSS Code Chapter 5.
Steam	+	+	+ see Note 8	wet	Fire endurance test not required
Abbreviations: + Application is allowed.					

- Application is not allowed.

* Fire endurance test as specified in LR's *Test Specification No. 2, Ch 5, Appendix 4 – Mechanical pipe joints – Fixed connections, 4.2.7.*

If mechanical joints include any components which readily deteriorate in case of fire, the following footnotes are to be observed:

Note 1. A fire endurance test shall be applied when mechanical joints are installed in pump-rooms and open decks.

Note 2. Slip-on joints are not accepted inside machinery spaces of category A or accommodation spaces. They may be accepted in other machinery spaces provided the joints are located in easily visible and accessible positions (refer to MSC/Circ.734).

Note 3. Mechanical joints are to be of approved fire-resistant types except in cases where such mechanical joints are installed on open decks, as defined in SOLAS Chapter II-2, Regulation 9.2.3.3.2.2(10), and not used for fuel oil lines.

Note 4. A fire endurance test shall be applied when mechanical joints are installed inside machinery spaces of category A.

Note 5. Only above bulkhead deck of passenger ships and freeboard deck of cargo ships.

Note 6. Slip type slip-on joints as shown in [Figure 1.5.2 Examples of mechanical joints \(Part 1\)](#) and [Figure 1.5.3 Examples of mechanical joints \(Part 2\)](#) may be used for pipes on deck with a design pressure of 10 bar or less.

Note 7. If a connection has passed the '30 min dry' test, it is considered suitable also for applications for which the '8 min dry + 22 min wet' and/or '30 min wet' tests are required. If a connection has passed the '8 min dry + 22 min wet' test, it is considered suitable also for applications for which the '30 min wet' test is required.

Note 8. See [Pt 15, Ch 1, 5.8 Other mechanical couplings 5.8.10](#).

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